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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,102	09/15/2006	Yozo Uchida	070759-0046	9358
	7590 10/15/200 `WILL & EMERY LL	EXAMINER		
600 13TH STR	EET, N.W.	ZHANG, YUANDA		
WASHINGTON, DC 20005-3096			ART UNIT	PAPER NUMBER
			2828	
			MAIL DATE	DELIVERY MODE
			10/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/593,102	UCHIDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	YUANDA ZHANG	2828			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>15 Security</u> This action is FINAL . 2b) ☑ This Since this application is in condition for alloware closed in accordance with the practice under Expression.	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 27-39 is/are pending in the application 4a) Of the above claim(s) 32-39 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 27-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examinet 10) The drawing(s) filed on 15 September 2006 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examineter	r election requirement. r. tre: a)⊠ accepted or b)□ objected or by objected or	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
,=	animor. Note the attached emec	, total of 101111 1 0 102.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/15/06;11/08/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 2. Claims 27-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamada (US PG Pub 2004/0245534 A1).
- 3. In re claim 27, with reference to figure 2, Yamada discloses a ridge stripe semiconductor laser device comprising an active layer (6), upper and lower clad layers (4 & 8) that sandwich the active layer therebetween, a stripe-shaped ridge (8a) formed in part of the upper clad layer (paragraph [0080]), and a current block layer (protective film 15 which is made of insulating material) that covers both sides of the stripe-shaped ridge other than a top face thereof (protective film 15 covers the striped structure with exposing the top surface of the ridge) (paragraph [0081]), wherein a first electrode (12) is formed on an upper face of the semiconductor laser device, and a second electrode (pad-electrode 14) is formed on the first electrode, wherein the first electrode is made thinner than the second electrode (electrode 12 is thinner than pad-electrode 14 since electrode 12 is made of Ni/Au while pad-electrode 14 is Ni/Ti/Au, having an extra Ti layer) (paragraph [0082] & [0083]), and is so formed as to cover at least an entire area of the top face of the ridge (electrode 12 covers the entire top surface of the ridge) (see

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figure 2), and wherein the second electrode is formed at a given distance away from both stripe- direction ends of the ridge (inherent, any distance).

- 4. In re claim 28, with reference to figure 2, Yamada discloses a multibeam semiconductor laser device comprising, on a common semiconductor substrate (1), a plurality of ridge stripe semiconductor laser portions (16 & 16'), each comprising an active layer (6), upper and lower clad layers (4 & 8) that sandwich the active layer therebetween, a stripe-shaped ridge (8a & 8a') formed in part of the upper clad layer (paragraph [0080]), and a current block layer (15) that covers both sides of the stripeshaped ridge other than a top face thereof (protective film 15 covers the striped structure with exposing the top surface of the ridge) (paragraph [0081]), wherein a first electrode (12 & 12') is formed on an upper face of each of the semiconductor laser portions, and a second electrode (14 & 14') is formed on the first electrode, wherein the first electrode is made thinner than the second electrode (electrode 12 & 12' is thinner than pad-electrode 14 & 14' since electrode 12 is made of Ni/Au while pad-electrode 14 is Ni/Ti/Au, having an extra Ti layer) (paragraph [0082] & [0083]), and is so formed as to cover at least an entire area of the top face of the ridge (electrode 12 & 12' covers the entire top surfaces of the ridges) (see figure 2), and wherein the second electrode is formed at a given distance away from both stripe-direction ends of the ridge (inherent, any distance).
- 5. In re claims 29 and 30, Yamada discloses wherein a width direction length of the second electrode is longer than a width direction length of the first electrode (see figure 2).

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6. In re claim 31, Yamada discloses wherein, between the plurality of semiconductor laser portions, a groove (trench 11) for electrically separating the semiconductor laser portions from each other is formed, and wherein the first electrode is formed away from the groove (paragraph [0043]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUANDA ZHANG whose telephone number is (571)270-1439. The examiner can normally be reached on Monday-Thursday, 7:30am-6:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/YZ/ 10/01/08

/Minsun Harvey/ Supervisory Patent Examiner, Art Unit 2828